

ABSTRACT OF THE DISCLOSURE

5 A transmission system structure including a signal receiver and a signal transmitter. The signal transmitter that transmits a differential input signal pair to the transmission line is mainly used for pre-charging the input terminal of the signal receiver to a predetermined voltage level. The differential signal pair is transmitted to the transmission line after pre-charging. The signal receiver
10 includes a positive feedback differential amplifier, a coupling circuit and pre-charging device. The pre-charger can pre-charge the differential input terminal of the positive feedback differential amplifier to the predetermined voltage level. During evaluation, the coupling circuit couples from
15 the input terminal to the differential input terminal. When there is a sufficient voltage difference on the differential input terminals, the positive feedback differential amplifier is turned on to amplify the entered differential input signal and outputs it to the differential output terminal.